

DERWENT-ACC-NO: **1978-55727A**

DERWENT-WEEK: 197831

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TITLE: Moulding sand prodn. by coating refractory
particles with
aq PVA soln.

PATENT-ASSIGNEE: HITACHI LTD[HITA]

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
<u>JP 53071626 A</u>	June 26, 1978	JA

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
JP 53071626A	N/A	1976JP-146489
December 8, 1976		

INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	B22C1/02	20060101
CIPS	B22C1/10	20060101

ABSTRACTED-PUB-NO: JP 53071626 A

BASIC-ABSTRACT:

Aq. soln. of PVA is added to refractory particles and the mixt. is dried to form a PVA coating on each refractory particle. The resultant poly coated sand is used as a moulding sand.

In an example, 65 mesh silica sand 6 pts. wt. and 150 mesh silica sand were mixed and 10% PVA aq. soln. was added to the silica sand in amount of 5 wt. %. the mixture was well kneaded to coat the silica sand surfaces with PVA soln. The mixture was then passed through a rotary kiln kept at 70 degrees C to evaporate the moisture.

Resultant moulding material was mixed with water or alcohol for use.
The
strength, surface stability and residual strength of the mould formed
were 40.0
kg/cm², 97.0% and 0 kg/cm², respectively.

TITLE-TERMS: MOULD SAND PRODUCE COATING REFRACTORY PARTICLE AQUEOUS
PVA
SOLUTION

ADDL-INDEXING-TERMS:
POLYVINYL ALCOHOL

DERWENT-CLASS: A14 A81 M22 P53

CPI-CODES: A10-E09B; A12-A02; M22-A; M22-D;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0231 2007 2427 2440 2509 2682 2729 2750
Multipunch Codes: 04- 231 244 245 398 431 445 477 57- 609 623 629 632